

IN THE CLAIMS:

The following is a complete listing of the claims, and replaces all earlier version and listings.

1. (currently amended): An apparatus for processing information data in a recording medium and playback description data indicating a playback procedure of the information data, comprising:

modified information data processing means for newly generating modified information data by using part of the information data; ~~and~~

description data processing means for modifying the playback procedure such that the modified information data are played back instead of the part of the information data, and modifying the content of the playback description data according to the modified playback procedure,

wherein the playback description data comprises playback time information indicating a playback start time or a playback end time of the information data, and wherein said description data processing means changes the playback start time or the playback end time according to a playback time of the modified information data, and said description data processing means further generates restoration time information indicating an amount of change of the playback start time or the playback end time and adds the restoration information to the playback description data; and

deleting means for deleting the modified information data from the recording medium in response to a deletion instruction.

wherein said description data processing means restores the play back procedure such that the part of the information data is played back instead of the modified information data in response to the deletion instruction of the modified information data, and wherein said description data processing means changes the playback start time or the playback end time according to the restoration information to restore the playback time information.

2.- 6. (canceled).

7. (previously presented): An apparatus according to claim 1, wherein the information data comprises encoded moving image data, and wherein said description data processing means modifies the content of the playback description data such that a playback start position or playback end position of the moving image data after the modification of the playback procedure corresponds to a boundary between units of encoding in the moving image data.

8. (currently amended): An apparatus according to claim 1, ~~wherein the information data is recorded in a recording medium and~~ wherein said description data processing means modifies the content of the playback description data such that a playback start position or playback end position of the information data after the modification of the playback procedure correspond to units of access on the recording medium.

9. (previously presented): An apparatus according to claim 1, wherein the information data includes encoded moving image data, and wherein said modified information data processing means comprises decoding means for decoding the moving image data, combining processing means for performing a combining processing on a plurality of items of moving image data decoded by the decoding means, and an encoding means for encoding moving image data obtained by the combining processing to thereby generate the modified information data.

10.-14. (canceled).

15. (currently amended): An apparatus for processing playback description data containing an information data object having playback time information indicating a playback start time or a playback end time of the information data recorded in a recording medium, designating a playback operation of the information data and indicating a playback procedure of the information data, comprising:

instruction means for modifying the playback procedure such that modified information data generated by using part of the information data is played back instead of the part of the information data; **and**

recording means for recording the modified information data in the recording medium;

description data processing means for changing the playback start time or the playback end time indicated by the playback time information of the information data object according to a playback time of the modified information data, and adding

restoration time information indicating an amount of change of the playback start time or the playback end time to the information data object,

wherein said description data processing means adds, according to the modified playback procedure, a modified information data object designating a playback operation of the modified information data to the playback description data; and

deleting means for deleting the modified information data from the recording medium in response to a deletion instruction,

wherein said description data processing means deletes the modified information data object from the playback description data to restore the playback procedure such that the part of the information data is played back instead of the modified information data in response to the deletion instruction of the modified information data, and wherein said description data processing means changes the playback start time or the playback end time according to the restoration information to restore the playback time information.

16.-18. (canceled).

19. (previously presented): An apparatus according to claim 15, wherein said description data processing means adds modified information data ID information for identifying the modified information data to the modified information data object.

20. (previously presented): An apparatus according to claim 19, wherein said description data processing means adds information indicating the type of modification processing performed on the modified information data as an attribute of the modified information data ID information.

21. (currently amended): A recording apparatus comprising:  
description data generating means for generating playback description data indicating a playback procedure of a plurality of items of information data and modified information data which is obtained by performing a modification processing on the information data, the modified information data having a section on which the modification processing is not performed and a section on which the modification processing is performed;

section information generating means for generating section information indicating the section where the modified information data processing has been performed in the modified information data; and

recording means for recording the playback description data and the section information on a recording medium.

22. (original): An apparatus according to claim 21, wherein the section information is recorded by being incorporated into the playback description data.

23. (original): An apparatus according to claim 21, wherein the information data includes image data, the modification processing includes a special effect

processing on the image data, and the section information includes a start time or end time of the special effect processing within the modified information data.

24. (original): An apparatus according to claim 21, wherein the information data includes image data, the modification processing includes a combining processing for combining the image data and other data, and the section information includes a start time or end time of the combining processing within the modified information data.

25. (original): An apparatus according to claim 21, wherein the information data is encoded, the modified information data is generated by using the encoding units as processing units, and the section where the modification processing is performed is determined independently of the processing units.

26. (original): An apparatus according to claim 21, wherein the modified information data is generated by using the access units of a recording medium in which the information data is recorded, and the section where the modification processing is performed is determined independently of the processing units.

27. (original): An apparatus according to claim 21, further comprising a display control means for displaying in a display unit, based on the section information, an image representing the section of the modified information data where the modification processing has been performed.

28. and 29. (canceled).

30. (currently amended): An apparatus for processing playback description data including an information data object having playback time information indicating a playback start time or a playback end time of the information data and designating a playback operation of the information data, and indicating a playback procedure of the information data, the apparatus comprising:

modified information data processing means for newly generating modified information data by using part of the information data, the modified information data having a section on which the modification processing is not performed and a section on which the modification processing is performed;

instruction means for modifying the playback procedure such that the modified information data is played back instead of the part of the information data;

description data processing means for changing the playback start time or the playback end time indicated by the playback time information of the information data object according to a playback time of the modified information data, and adding restoration time information indicating an amount of change of the playback start time or the playback end time to the information data object;

wherein said description data processing means adds, according to the modified playback procedure instructed by said instruction means, a modified information data object including section information indicating the section of the modified information data where the modification processing is performed, the modified information data object

further designating a playback operation of the modified information data to the playback description data; and

recording means for recording the modified information data and the playback description data processed by said description data processing means in a recording medium according to claim 1, wherein the modified information data having a section on which the modification processing is not performed and a section on which the modification processing is performed, and

wherein said description data processing means adds, according to the modified playback procedure, a modified information data object including section information indicating the section where the modification processing is performed in the modified information data, the modified information data object further designating a playback operation of the modified information data to the playback description data.

31. (currently amended): A method of processing information data in a recording medium and playback description data indicating a playback procedure of the information data, comprising:

a modified information data generation processing step, of newly generating modified information data by using part of the information data; ~~and~~

a description data control processing step, of modifying the playback procedure such that the modified information data is played back instead of the part of the information data, and modifying the content of the playback description data according to the modified playback procedure,



wherein the playback description data contains playback time information indicating a playback start time or a playback end time of the information data, and the playback start time or the playback end time is changed in said description data control processing step according to a playback time of the modified information data, and restoration time information indicating an amount of change of the playback start time or the playback end time is generated in said description data control processing step, and the restoration information is added to the playback description data in said description data control processing step; and

a deleting step, for deleting the modified information data from the recording medium in response to a deletion instruction,

wherein said description data processing step includes restoring the playback procedure such that the part of the information data is played back instead of the modified information data in response to the deletion instruction of the modified information data, and wherein said description data processing step includes changing the playback start time or the playback end time according to the restoration information to restore the playback time information.

32.- 36. (canceled)

37. (currently amended): A method according to claim 31, wherein the information data is recorded in a recording medium; ~~and~~ the content of the playback description data is modified, in said description data control processing step, such that a playback start position or playback end position of the information data after the

modification of the playback procedure corresponds to access units on the recording medium.

38. (previously presented): A method according to claim 31, wherein the information data includes encoded moving image data, and said modified information data control processing step comprises a decoding processing step of decoding the moving image data, a combining processing step of performing a combining processing on a plurality of items of decoded moving image data, and an encoding processing step of generating the modified information data by encoding the combined moving image data.

39.- 42. (canceled)

43. (currently amended): A method of processing playback description data including an information data object having playback time information indicating a playback start time or a playback end time of ~~the~~ information data recorded in a recording medium, designating a playback operation of the information data and indicating a playback procedure of the information data, comprising:

a modification processing step, of modifying the playback procedure such that modified information data generated by using part of the information data is played back instead of the part of the information data; **and**

a recording step, for recording the modified information data in the recording medium;

a description data control processing step, of changing the playback start time or the playback end time indicated by the playback time information of the information data object according to a playback time of the modified information data, and adding restoration time information indicating an amount of change of the playback start time or playback end time to the information data object,

wherein a modified information data object designating a playback operation of the modified information data is added to the playback description data, in said description data control processing step, according to the modified playback procedure; and

a deleting step, for deleting the modified information data from the recording medium in response to a deletion instruction,

wherein said description data processing step includes deleting the modified information data object from the playback description data to restore the playback procedure such that the part of the information data is played back instead of the modified information data in response to the deletion instruction of the modified information data,  
and wherein said description data processing step includes changing the playback start time or the playback end time according to the restoration information to restore the playback time information.

44.- 46. (canceled)

47. (previously presented): A method according to claim 43, wherein modified information data ID information for identifying the modified information data is added, in said description data control step, to the modified information data object.

48. (previously presented): A method according to claim 47, wherein information indicating the type of an information modification processing performed on the modified information data is added, in said description data control step, as an attribute of the modified information data ID information.

49. (currently amended): A data processing method comprising:  
a description data generating step, of generating playback description data indicating a playback procedure for a plurality of items of information data and modified information data which is obtained by performing a modification processing on the information data, the modified information data having a section on which the modification processing is not performed and a section on which the modification processing is performed;

a section information generation processing step, of generating section information indicating the section of the modified information data on which the modification processing has been performed in the modified information data; and

a recording step, of recording the playback description data and the section information on a recording medium.

50. (canceled).